

**METHODS, CIRCUITS AND COMPOSITIONS OF MATTER FOR IN VIVO
DETECTION OF BIOMOLECULE CONCENTRATIONS USING FLORESCENT
TAGS**

Abstract

Methods are disclosed wherein labeled antibodies can be provided *in vivo* to tissue having antigens that specifically bind the labeled antibody. A first optical radiation is emitted into the tissue *in vivo* to excite the labeled antibody bound to the antigen *in vivo*. A second optical radiation that is emitted by the excited labeled
5 antibody, in response to the excitation thereof, can be detected *in vivo*. Related telemetric circuits and compositions of matter are also disclosed.